

FIG. 1

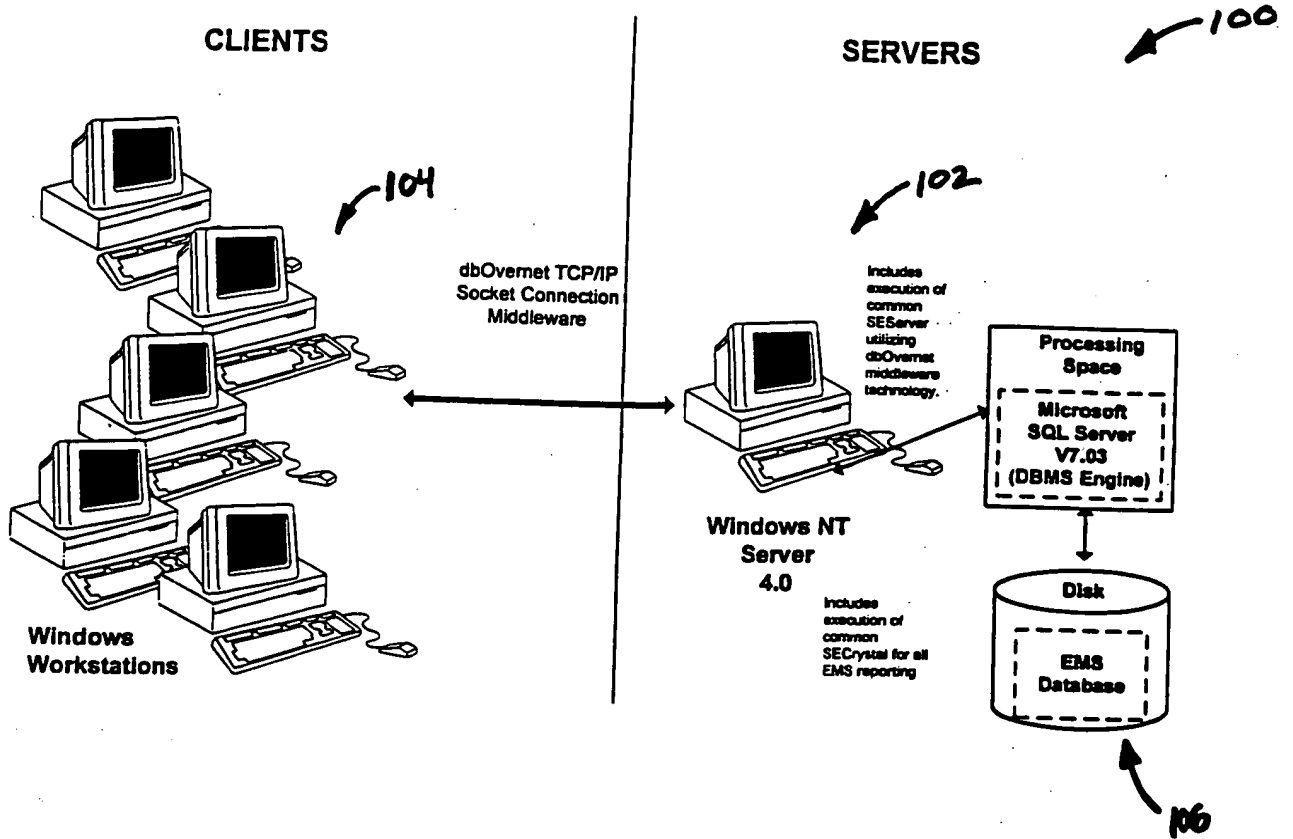


FIG. 2

# Companies Subject Area (ERD)

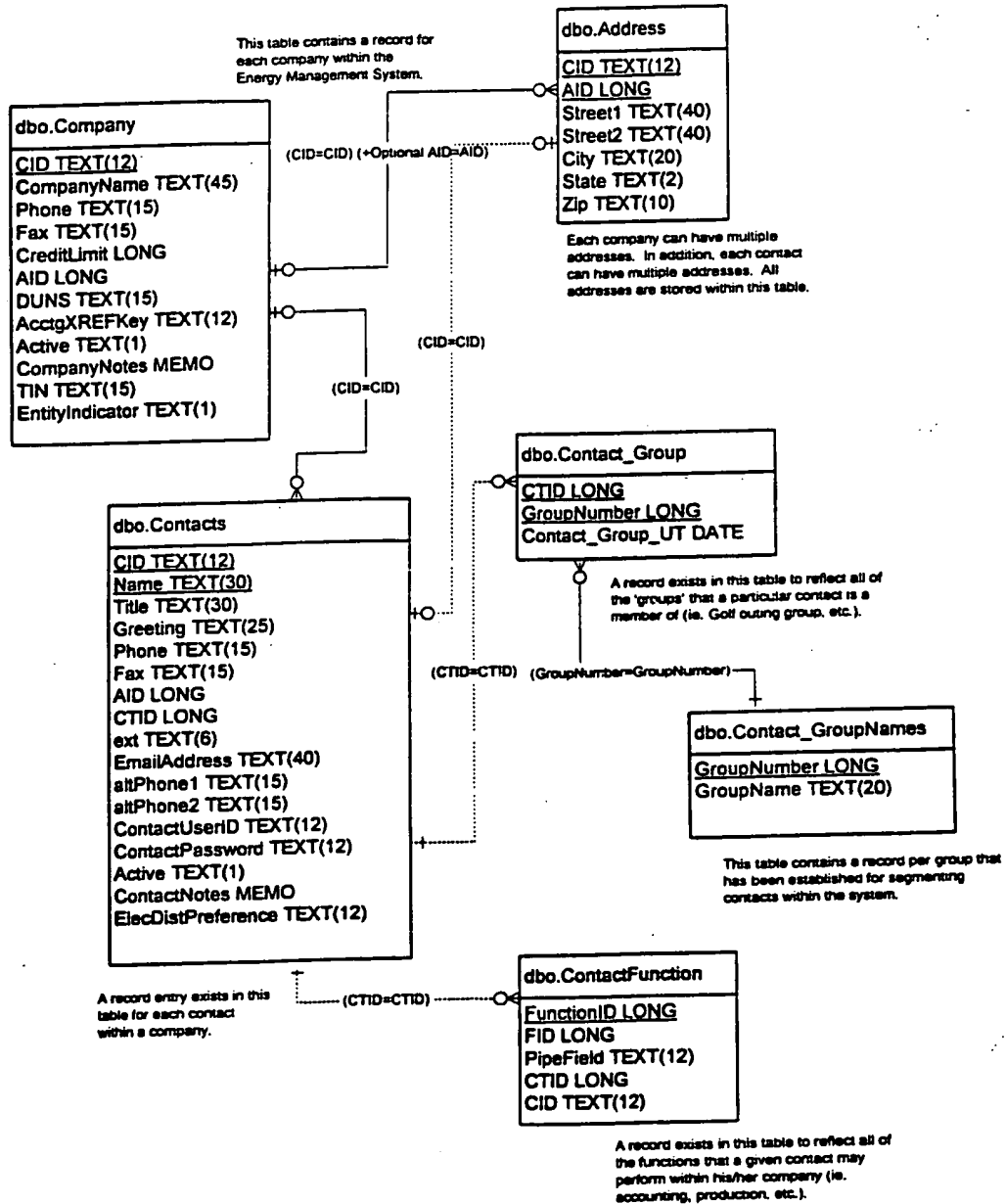


FIG. 3A

Contracts Subject Area (ERD)

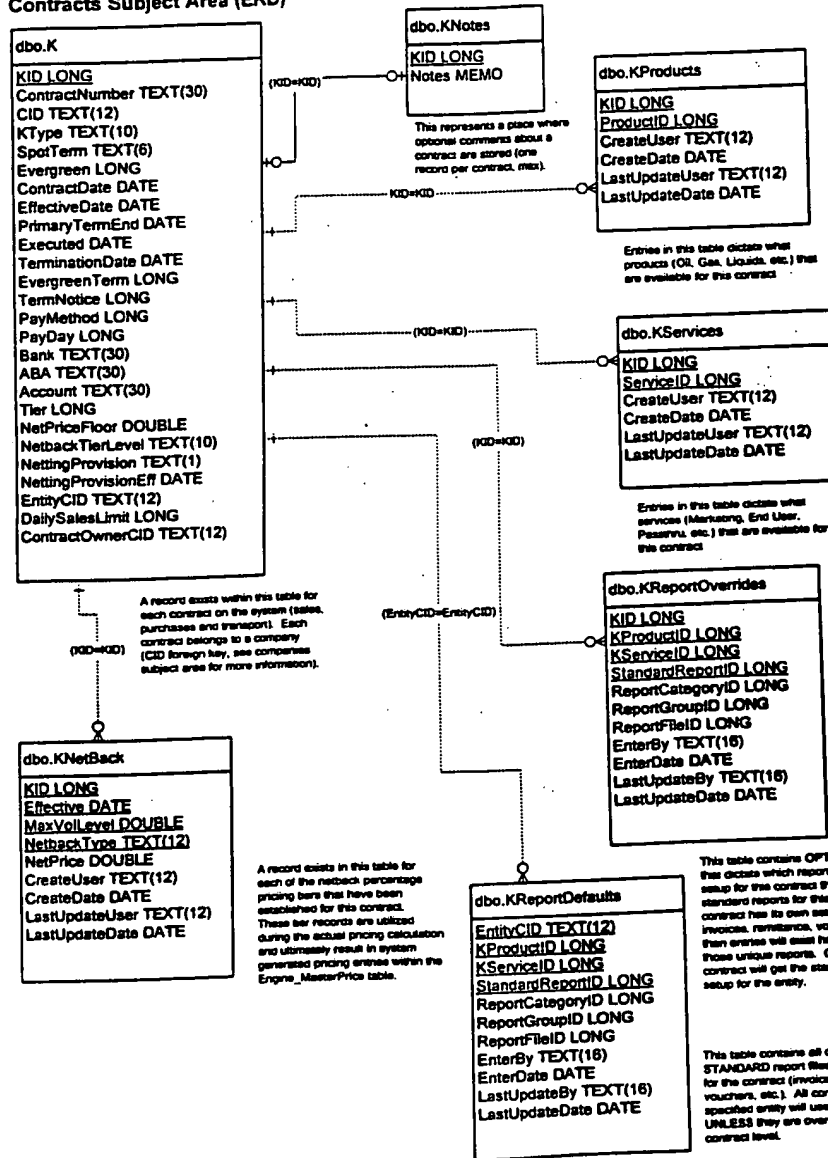


FIG. 3B

Filed: June 28, 2001

Inventor: Louis Morrison III et al.

Our Docket No.: 068.0003

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## Deals Subject Area (ERD) (1 of 2)

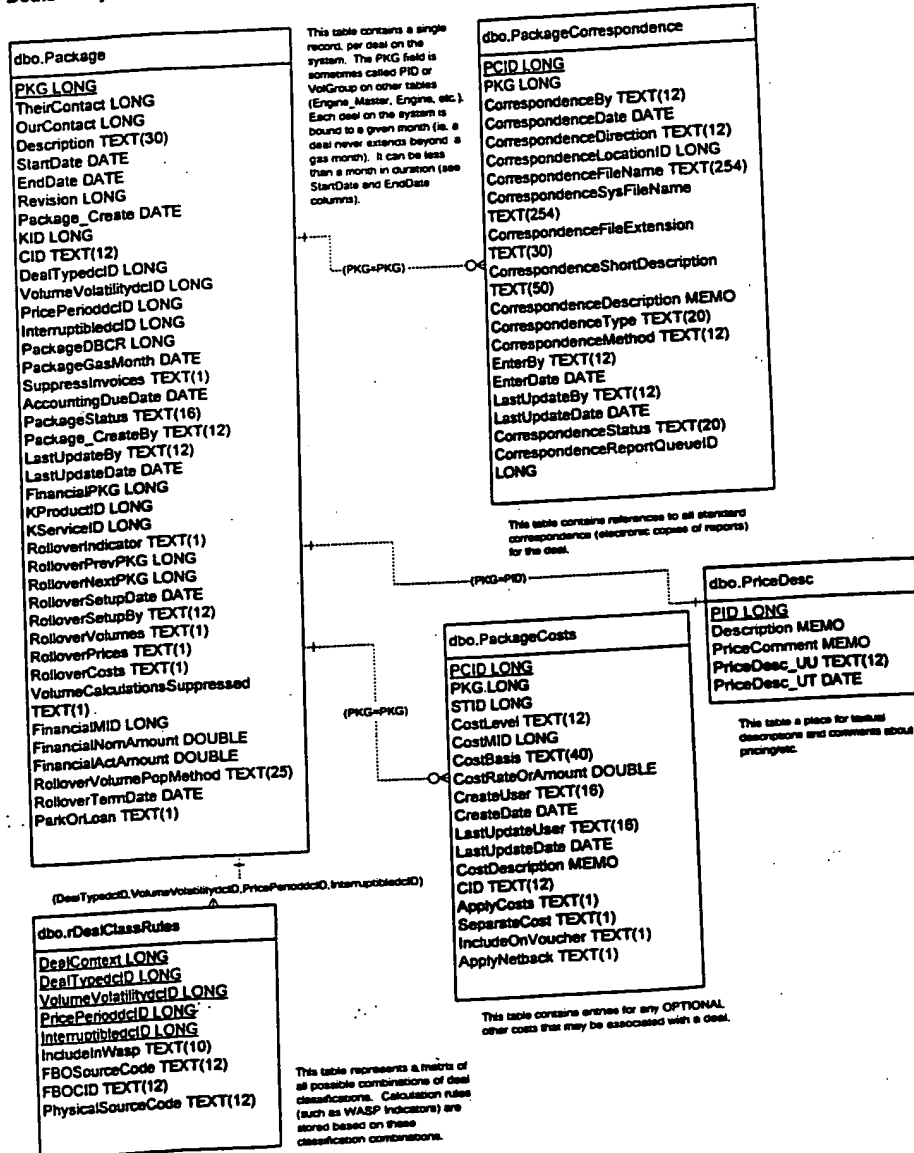


FIG. 3C

# Deals Subject Area (ERD) (2 of 2)

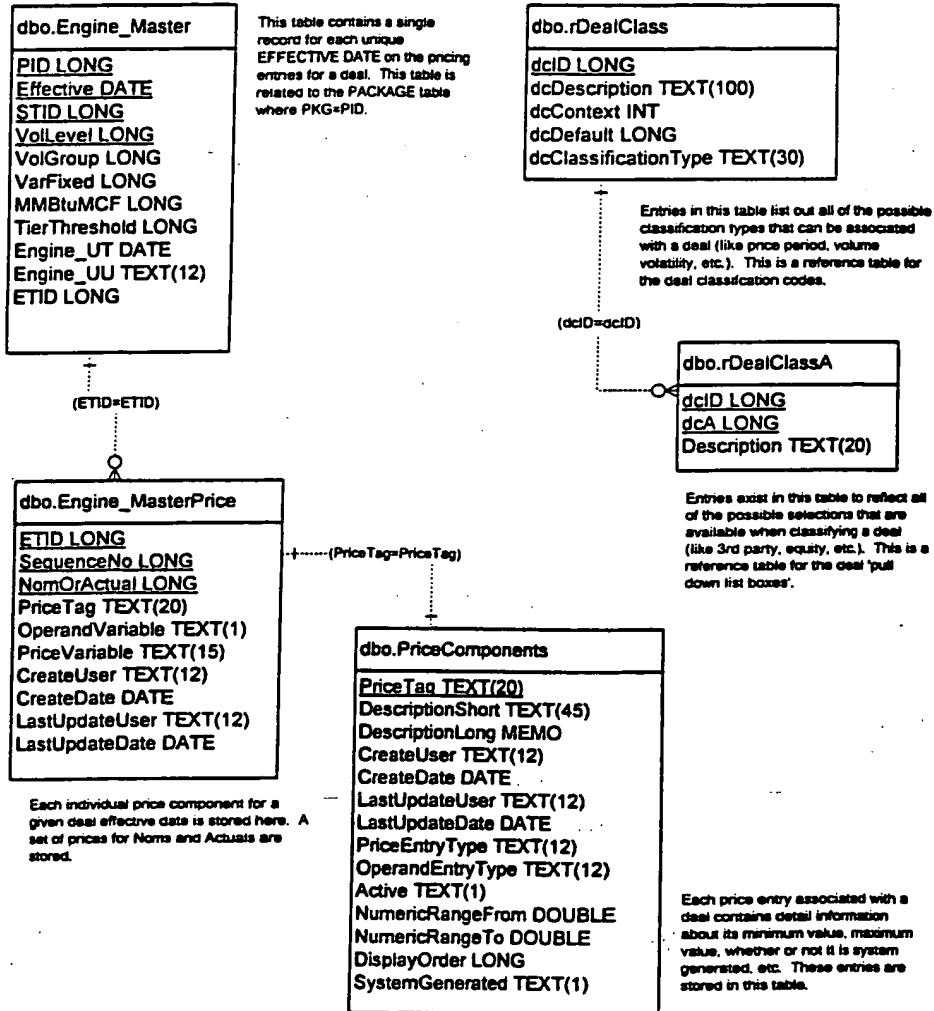


FIG. 3D

## Gas Inventory Subject Area (ERD) (1 of 2)

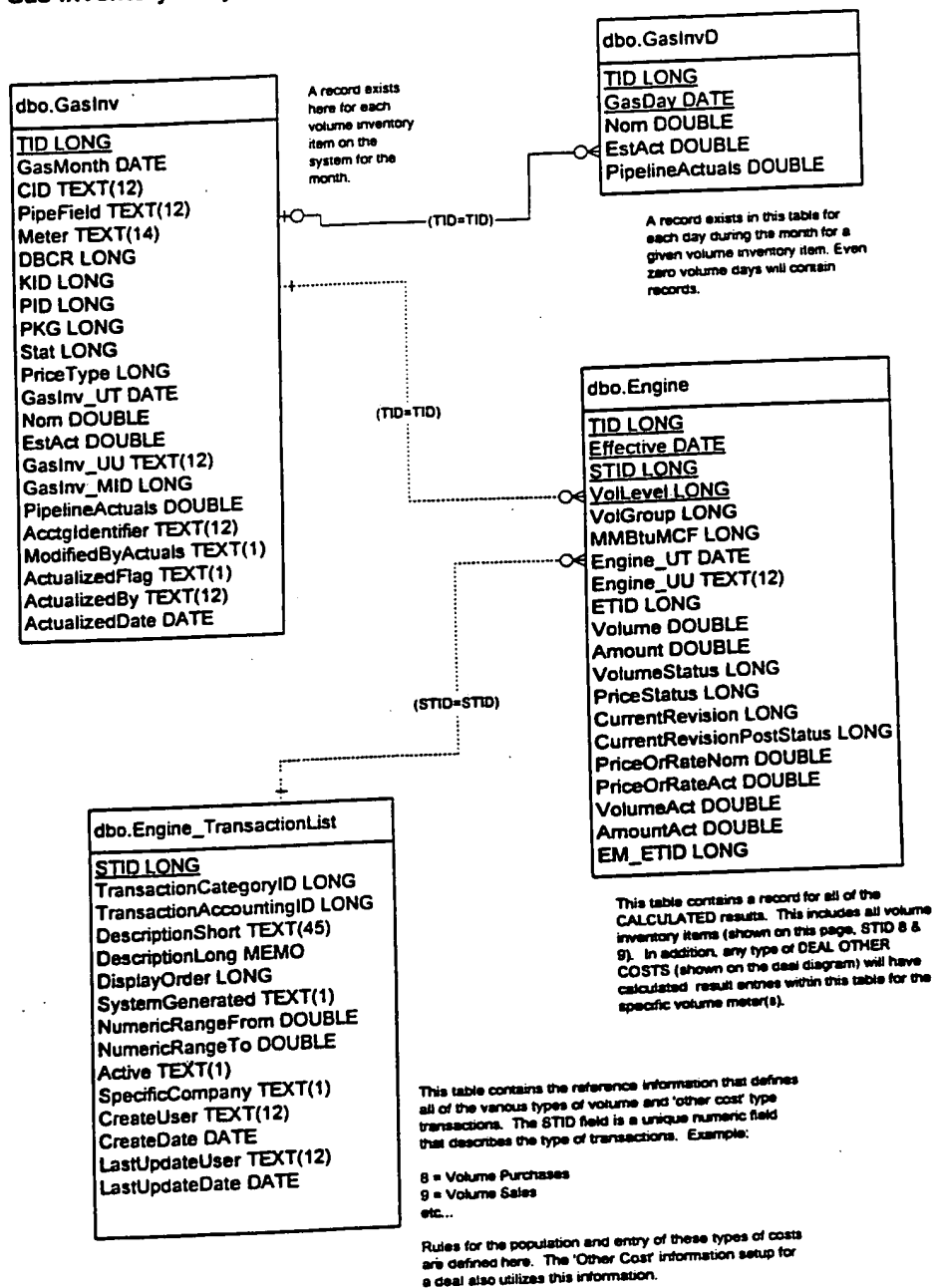


FIG. 3E

# Gas Inventory Subject Area (ERD) (2 of 2)

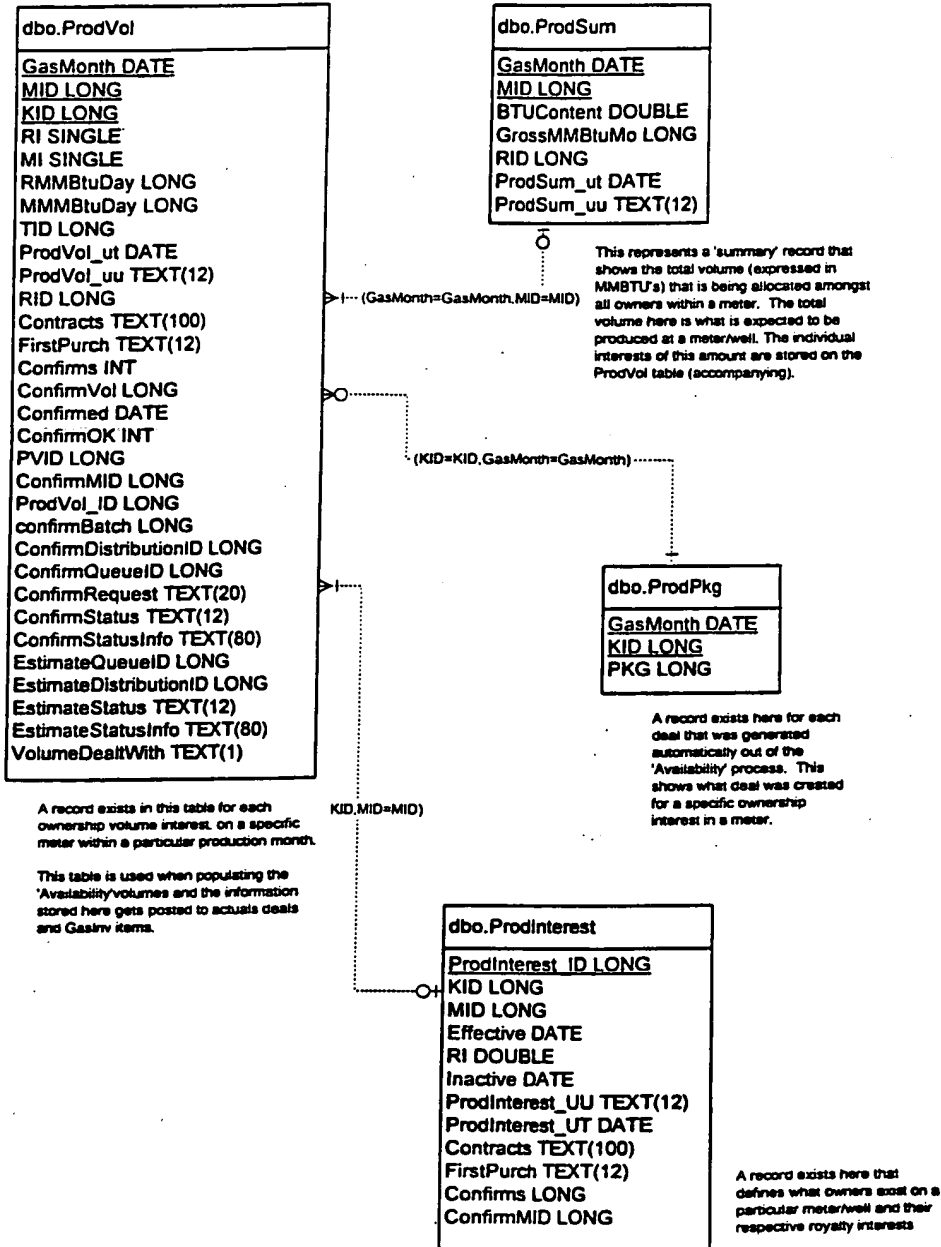


FIG. 3F



# Operational Subject Area - 1 f 4 (ERD)

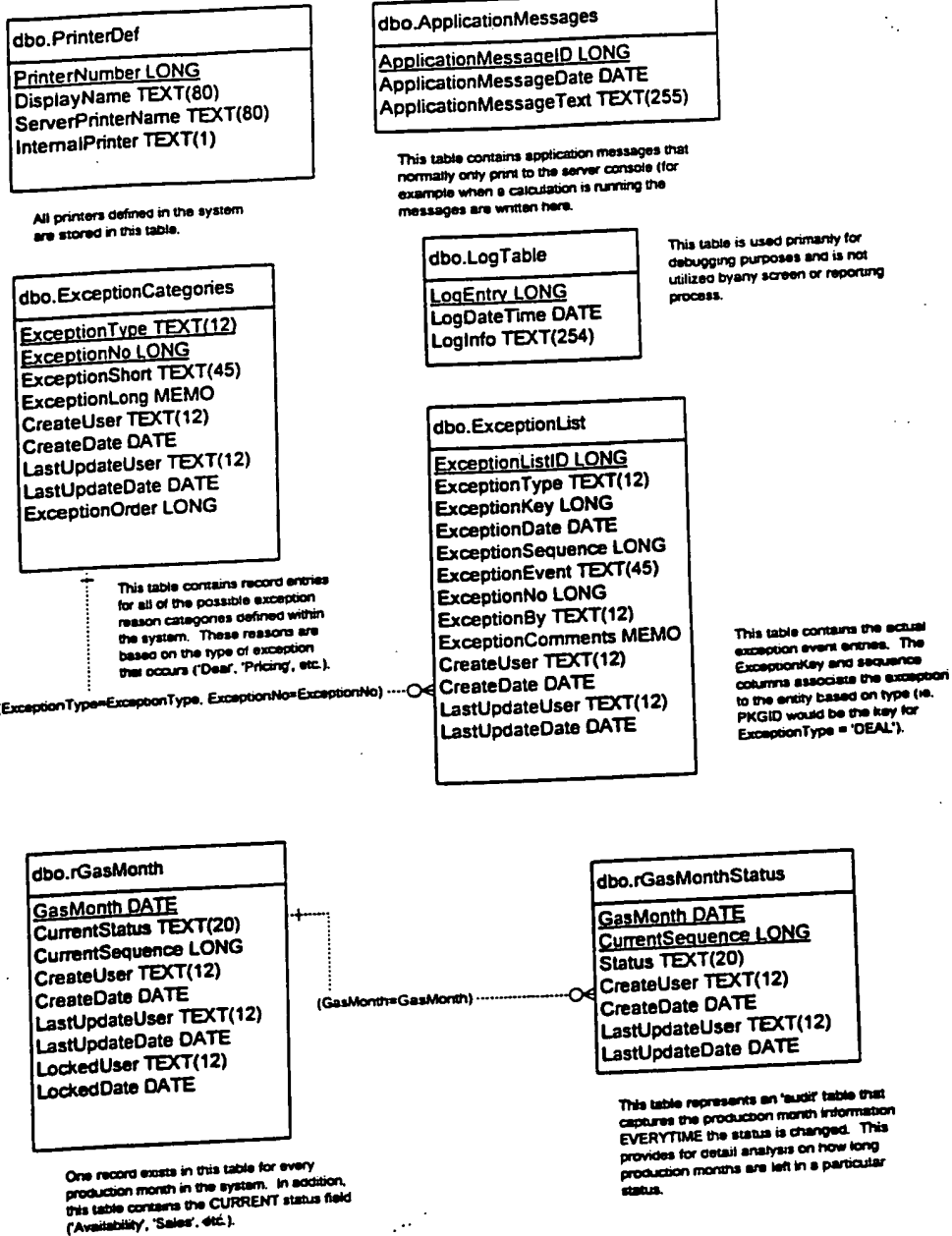


FIG. 3G

# Operational Subject Area – 2 of 4 (ERD)

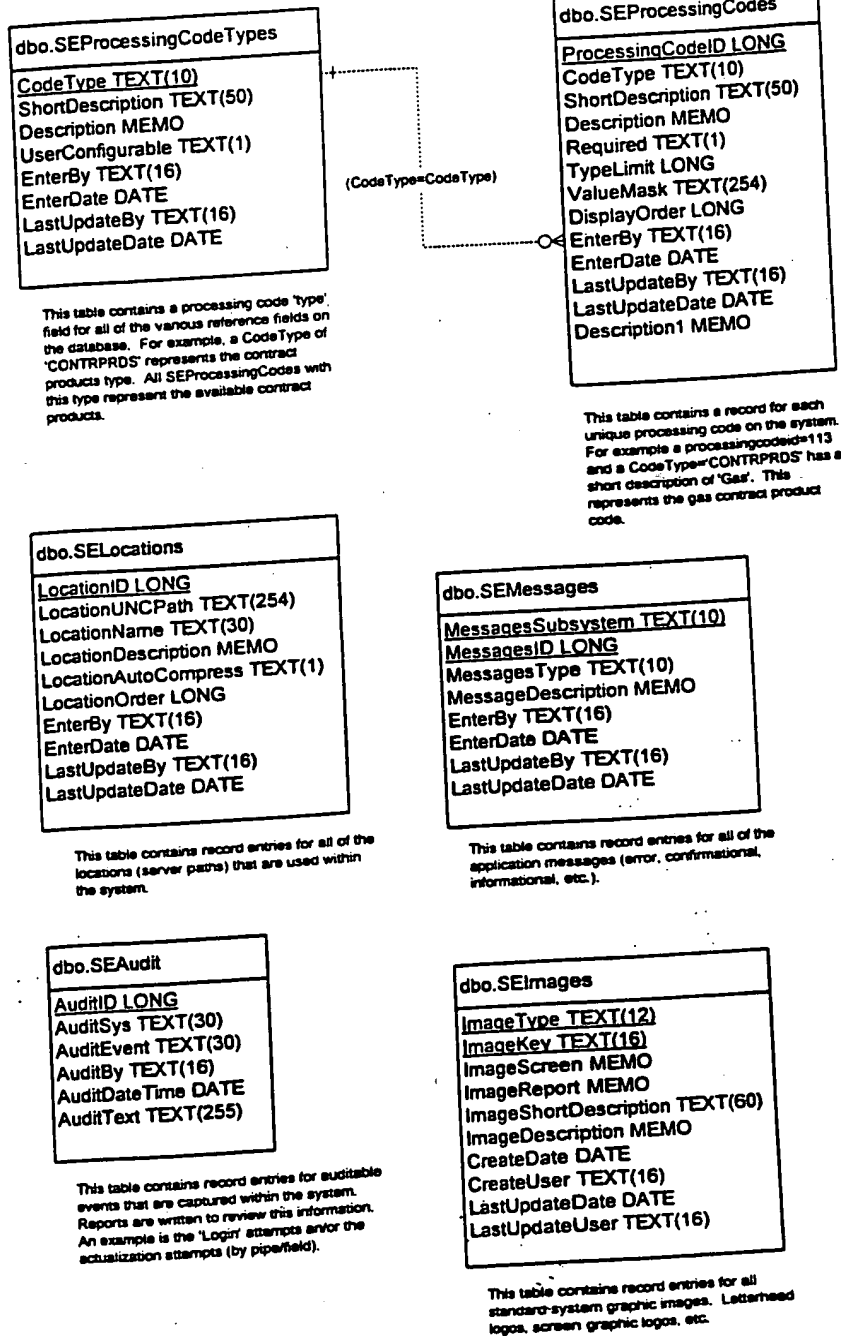


FIG. 3H

Operational Subject Area - 3 of 4 (ERD)

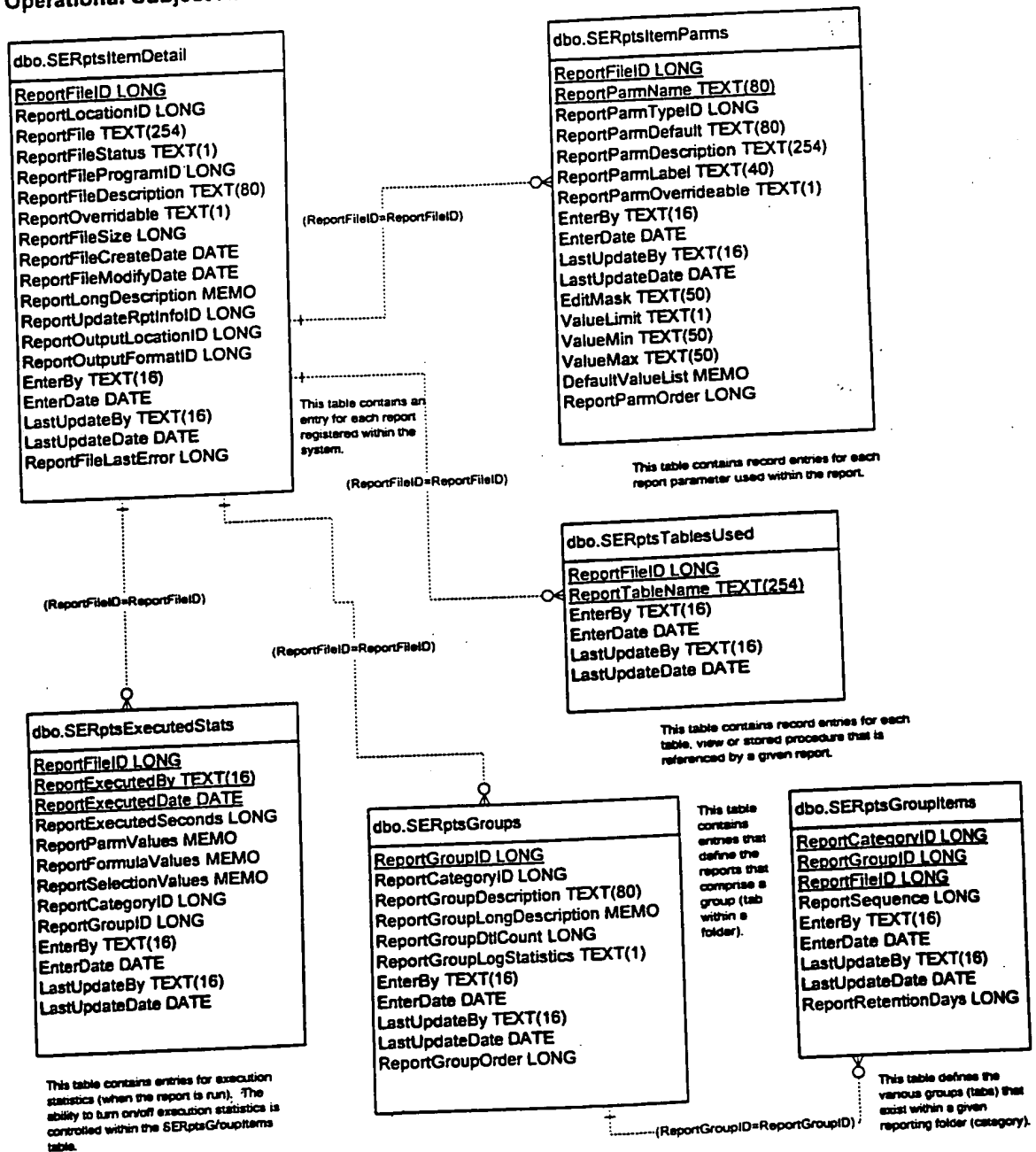


FIG. 31

## Operational Subject Area - 4 of 4 (ERD)

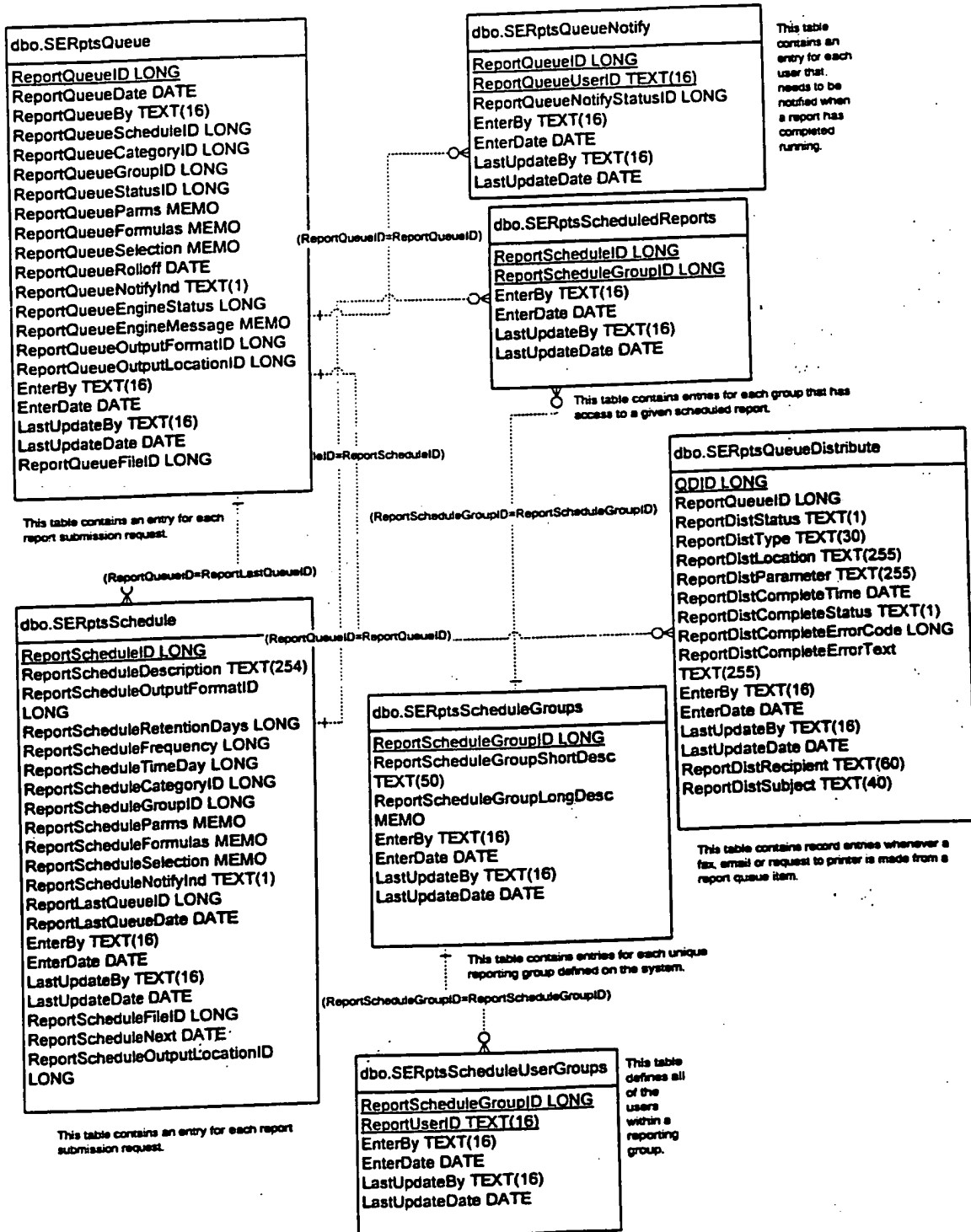


FIG. 3J

# Pipes & Meters Subject Area (ERD)

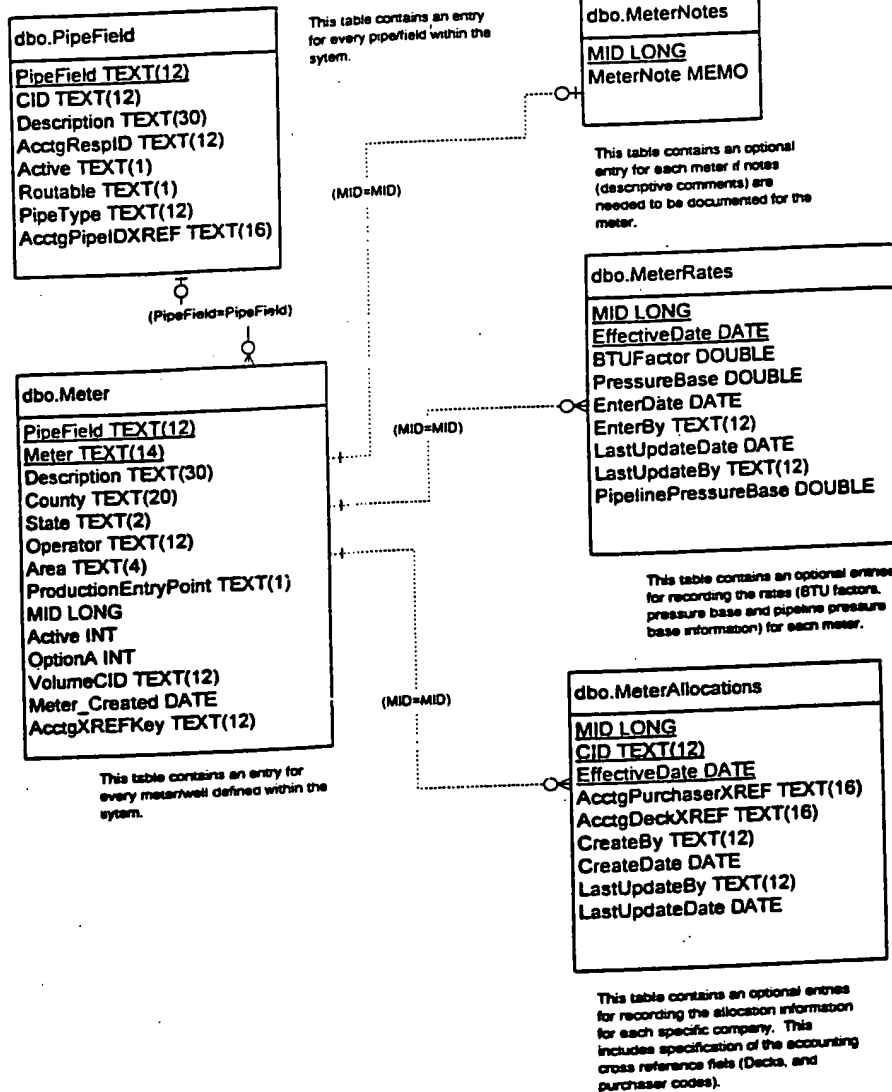


FIG. 3K

# Pricing Subject Area (ERD)

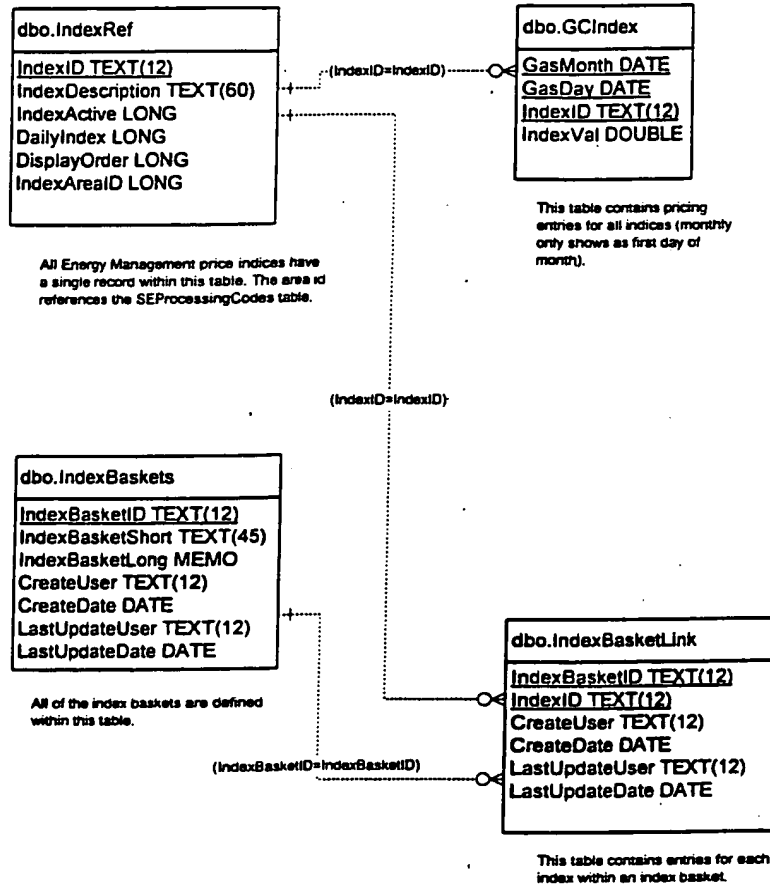


FIG. 3L

Routing Subject Area (ERD)

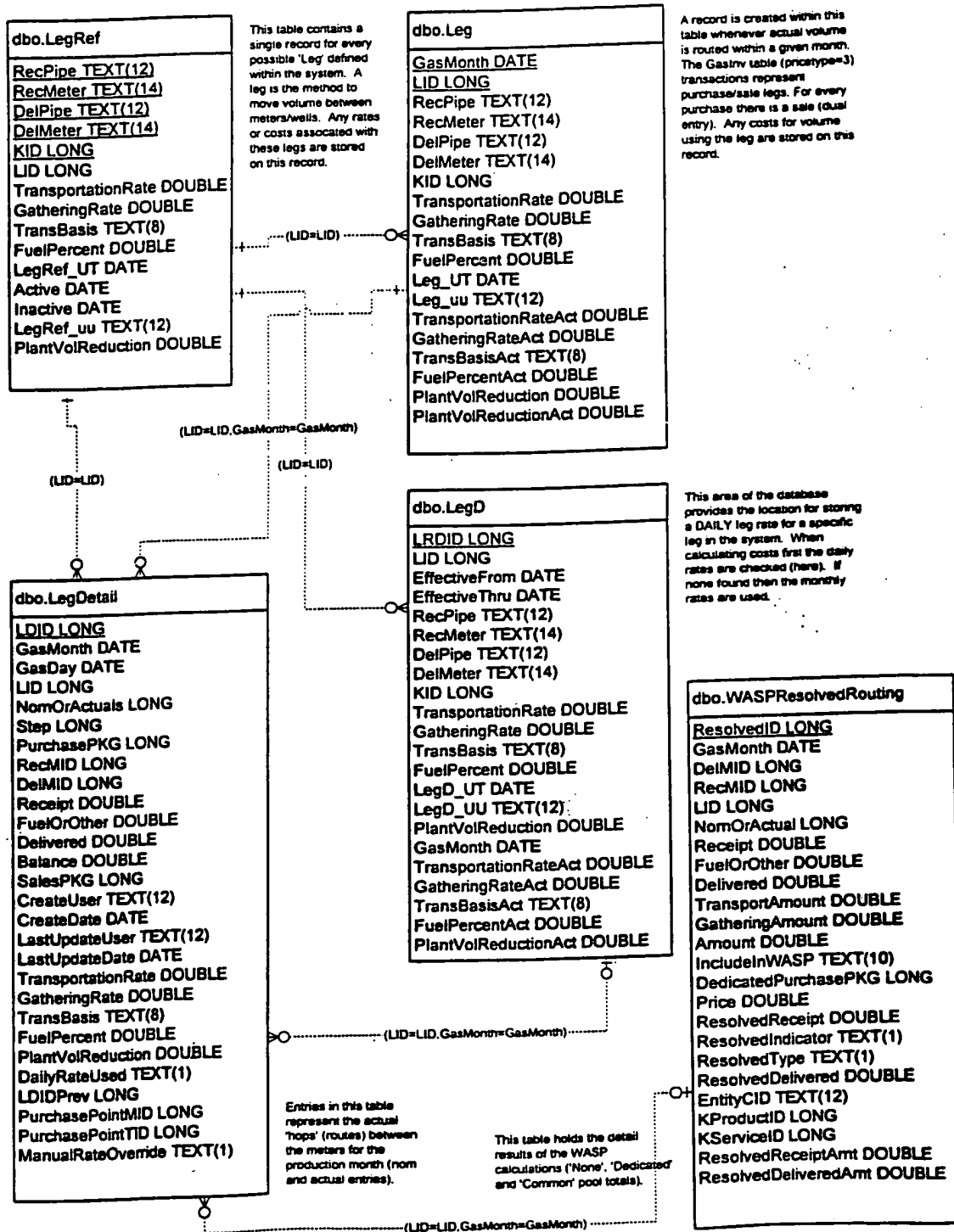


FIG. 3M

# Security Subject Area (ERD)

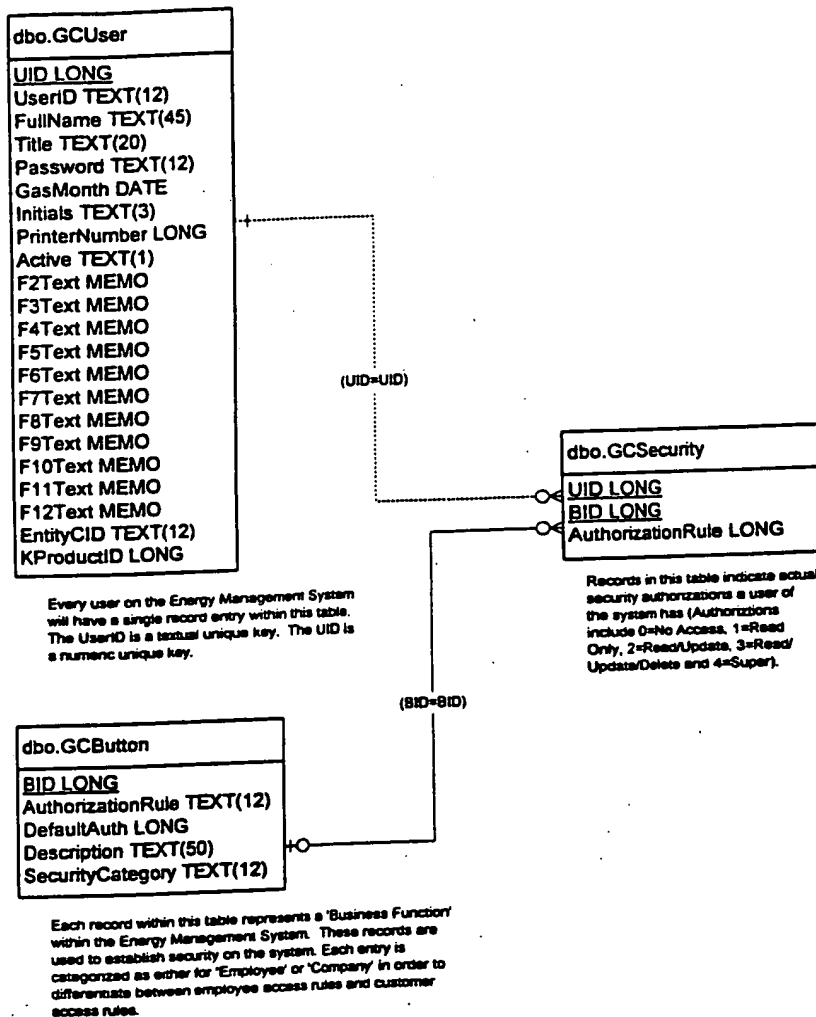
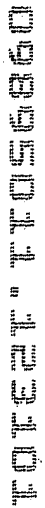


FIG. 3N





**FIG. 4A**

Energy Management System

Version: 5.06

02/23/2001 12:54:37 pm SUSAN

HEC | Gas

December, 2000 | Accounting

Printer: Accounting Printer

User Profile Detail - (Change)

General: [F1] [F2] [F3] [F4] [F5] [F6] [F7] [F8] [F9] [F10] [F11] [F12]

ID: SUSAN

Full Name: Susan Sims

Dr. of Client Svcs: [F1] [F2] [F3] [F4] [F5] [F6] [F7] [F8] [F9] [F10] [F11] [F12]

Month: December / 2000

Product: HEC

Gas

SS

Profile Number: Accounting Printer

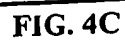
Internal User ID: 2448

Help

Cancel

FIG. 4B

09895011.1 123101



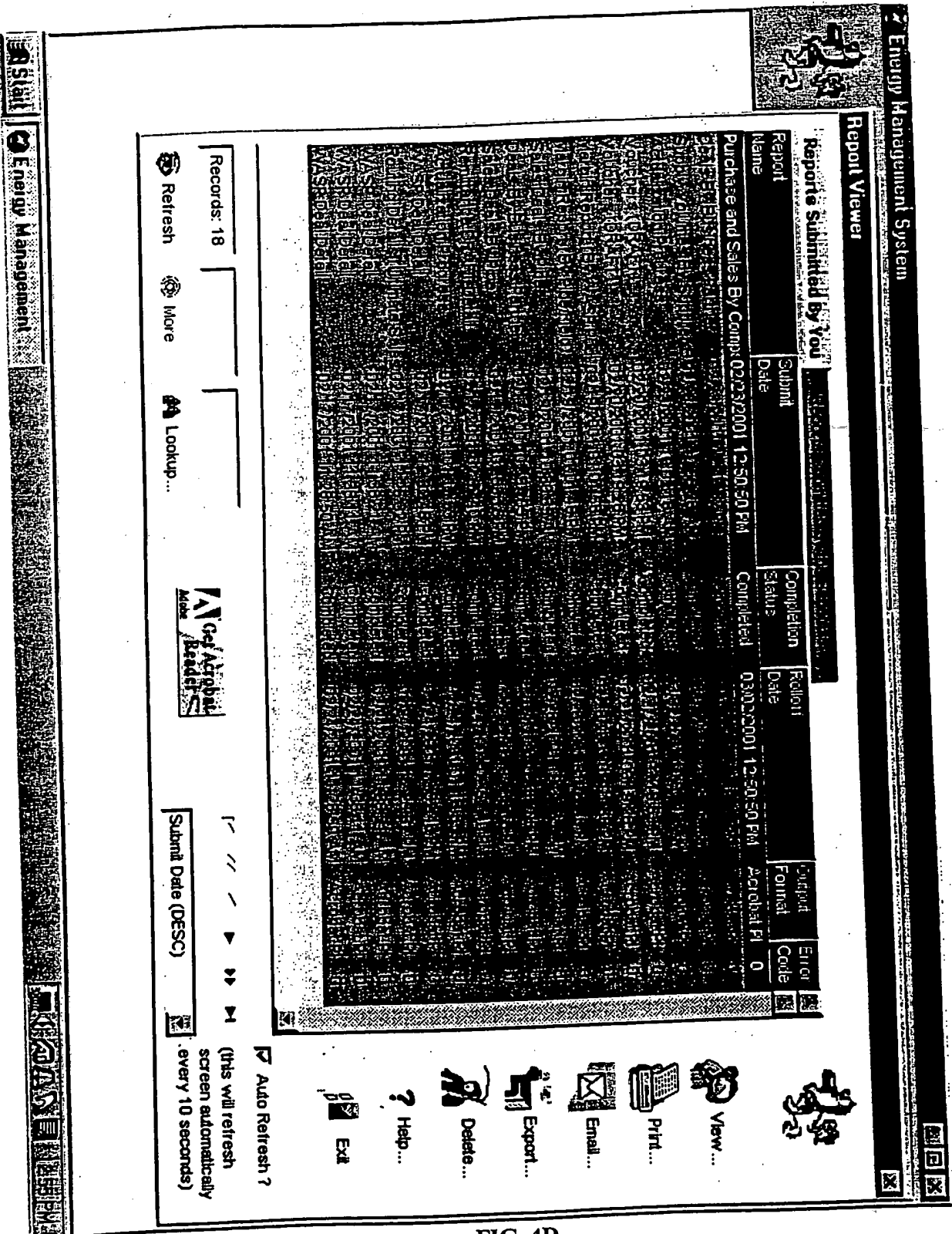


FIG. 4D

09895011.123101

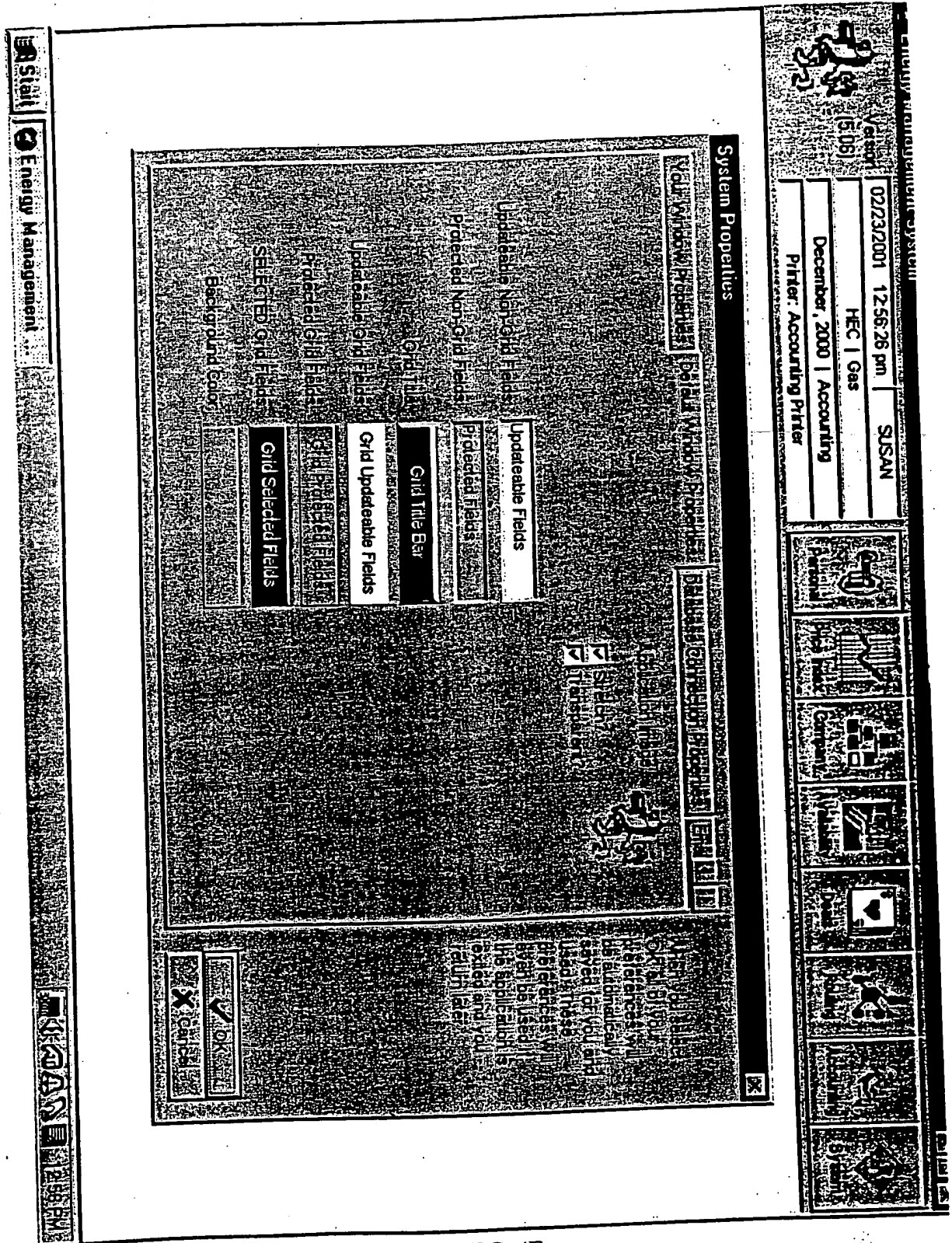


FIG. 4E

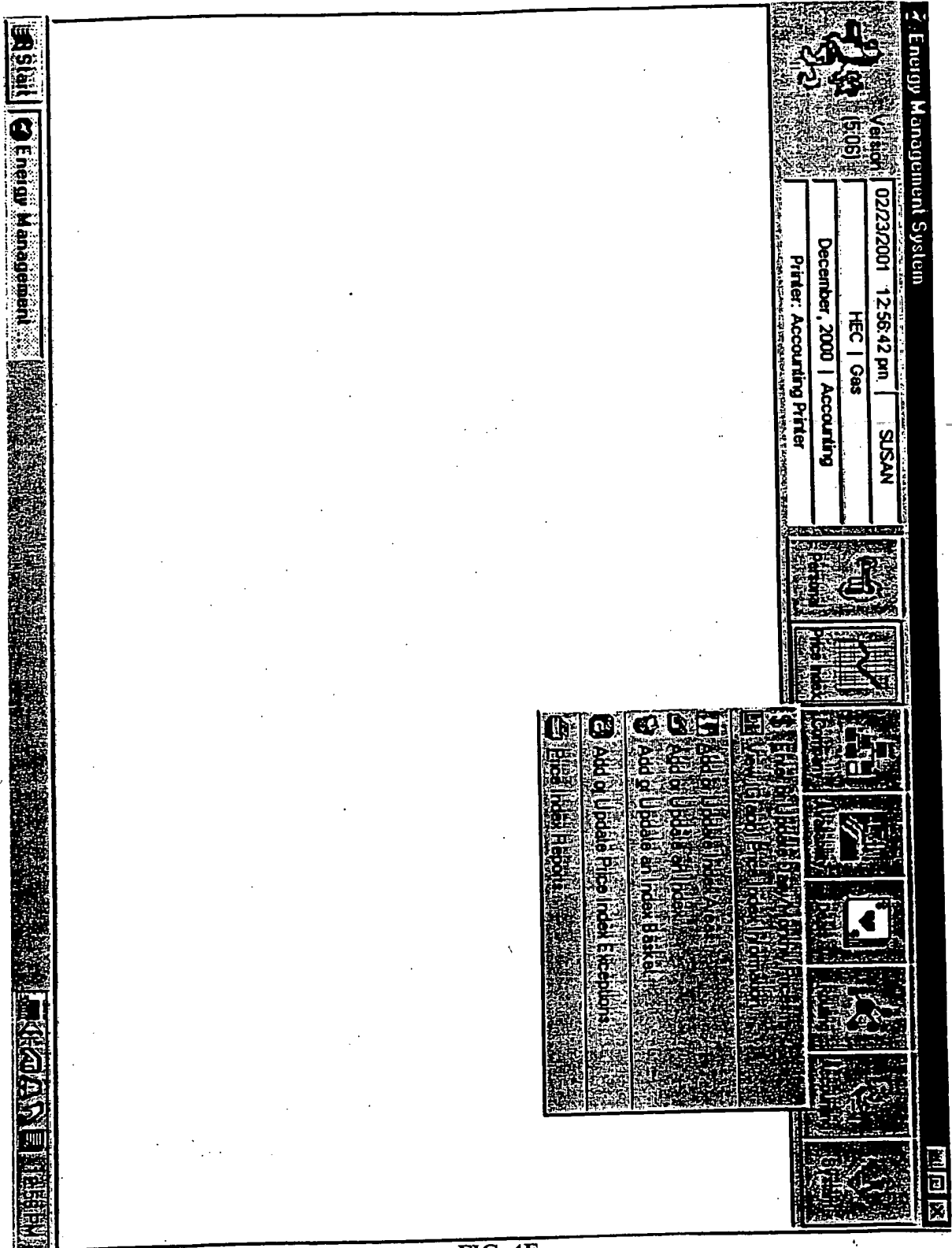


FIG. 4F

09895011.1.123101

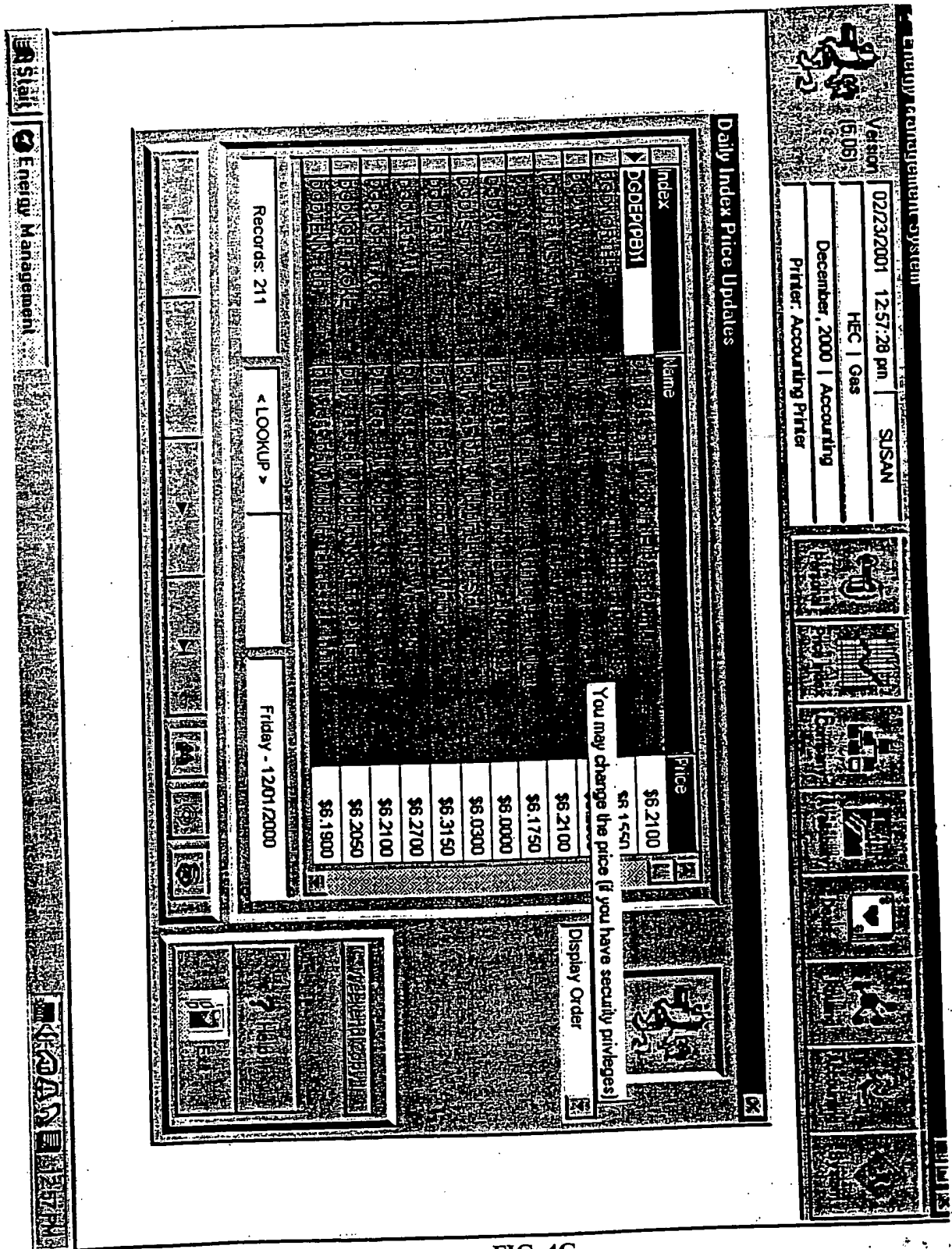


FIG. 4G

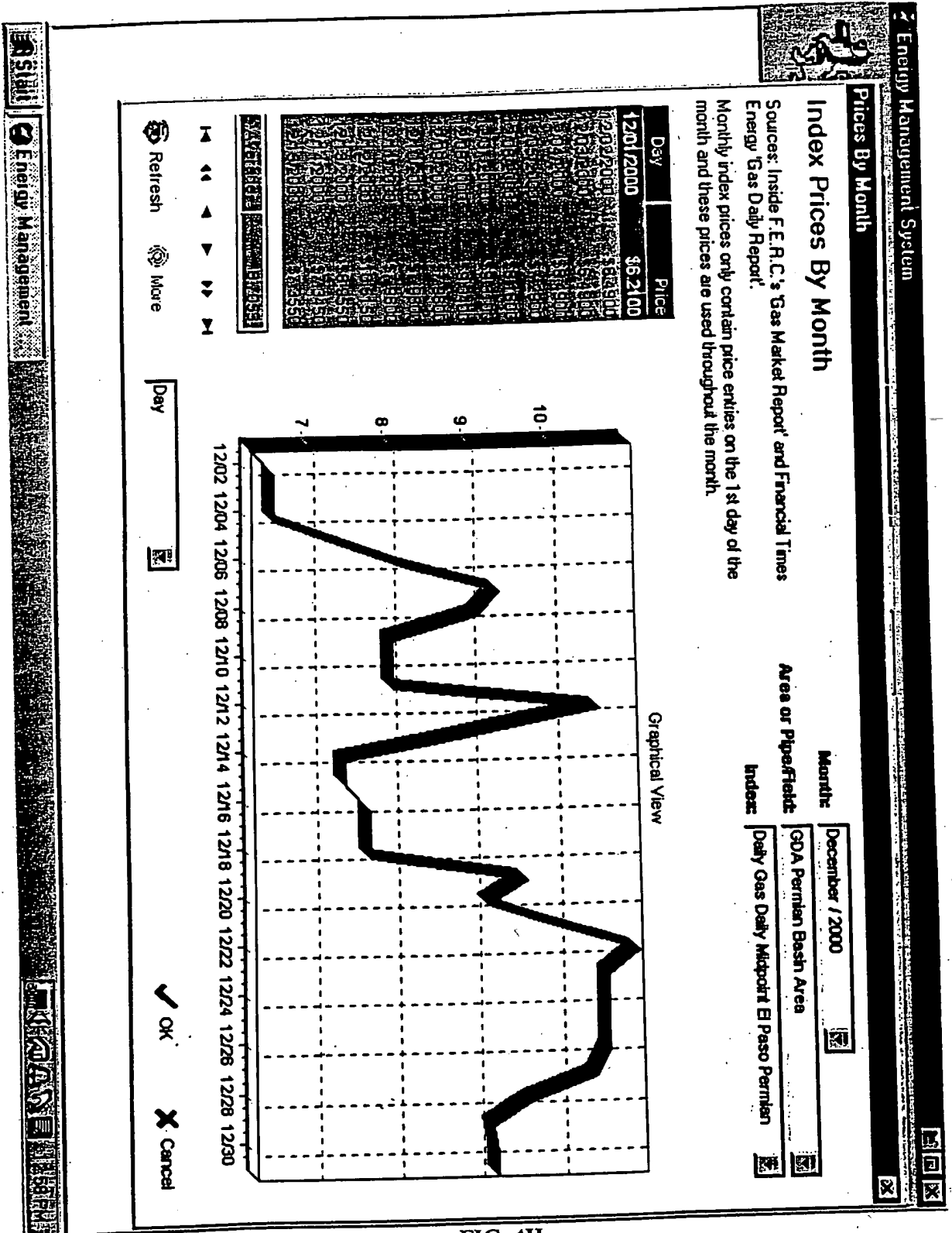


FIG. 4H

09895011.123101



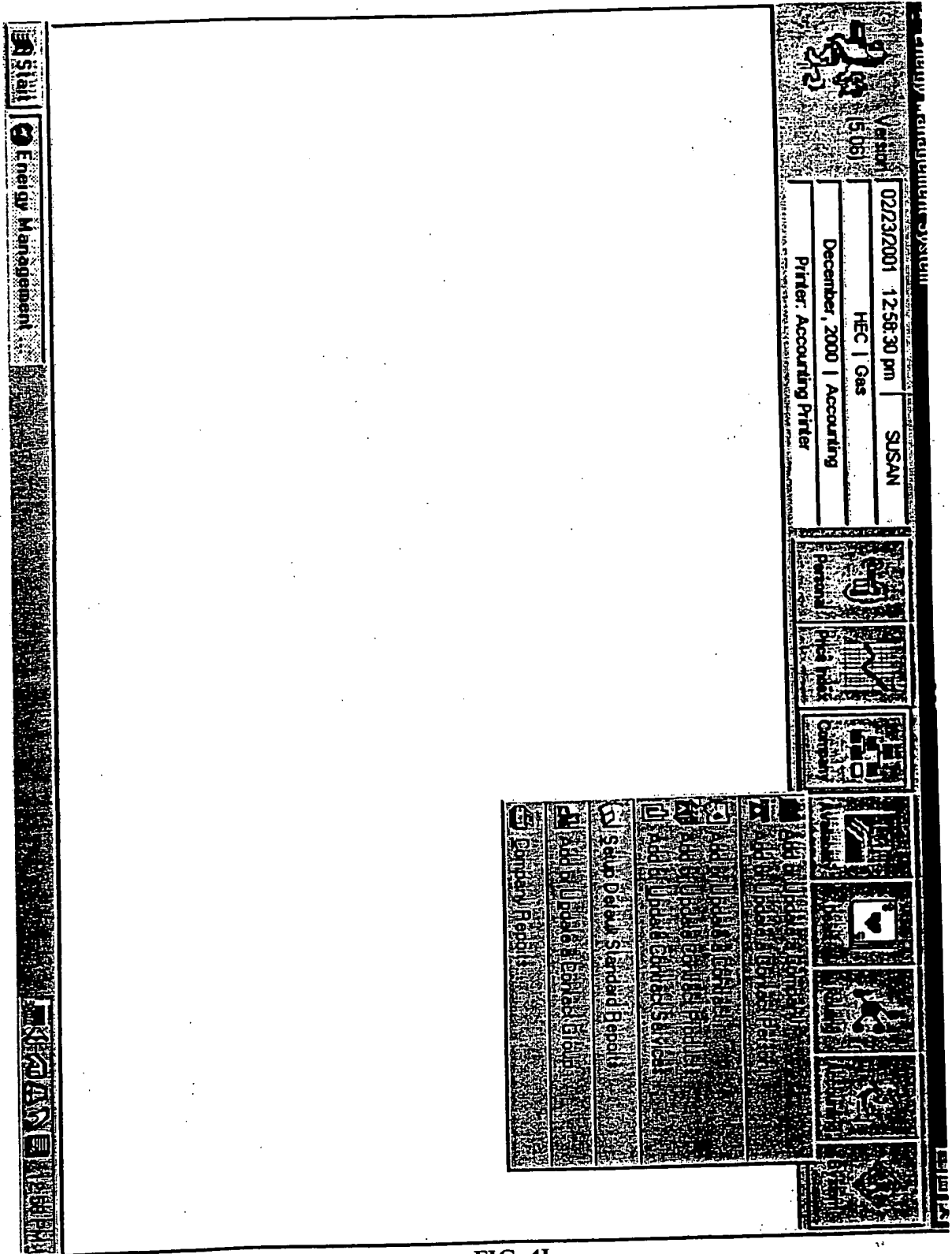


FIG. 4I

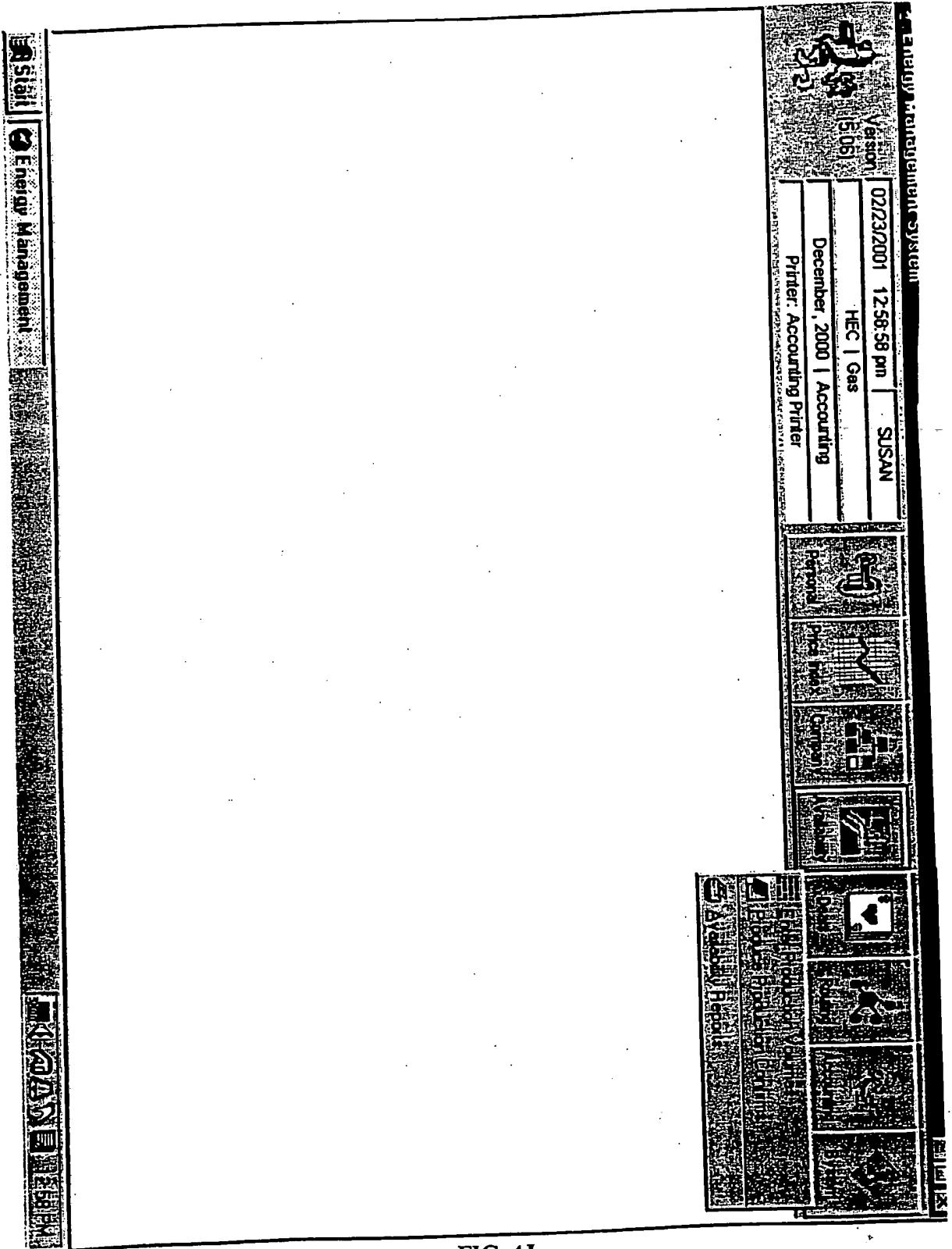


FIG. 4J

09895011.123101

FOOTPRINT F056860

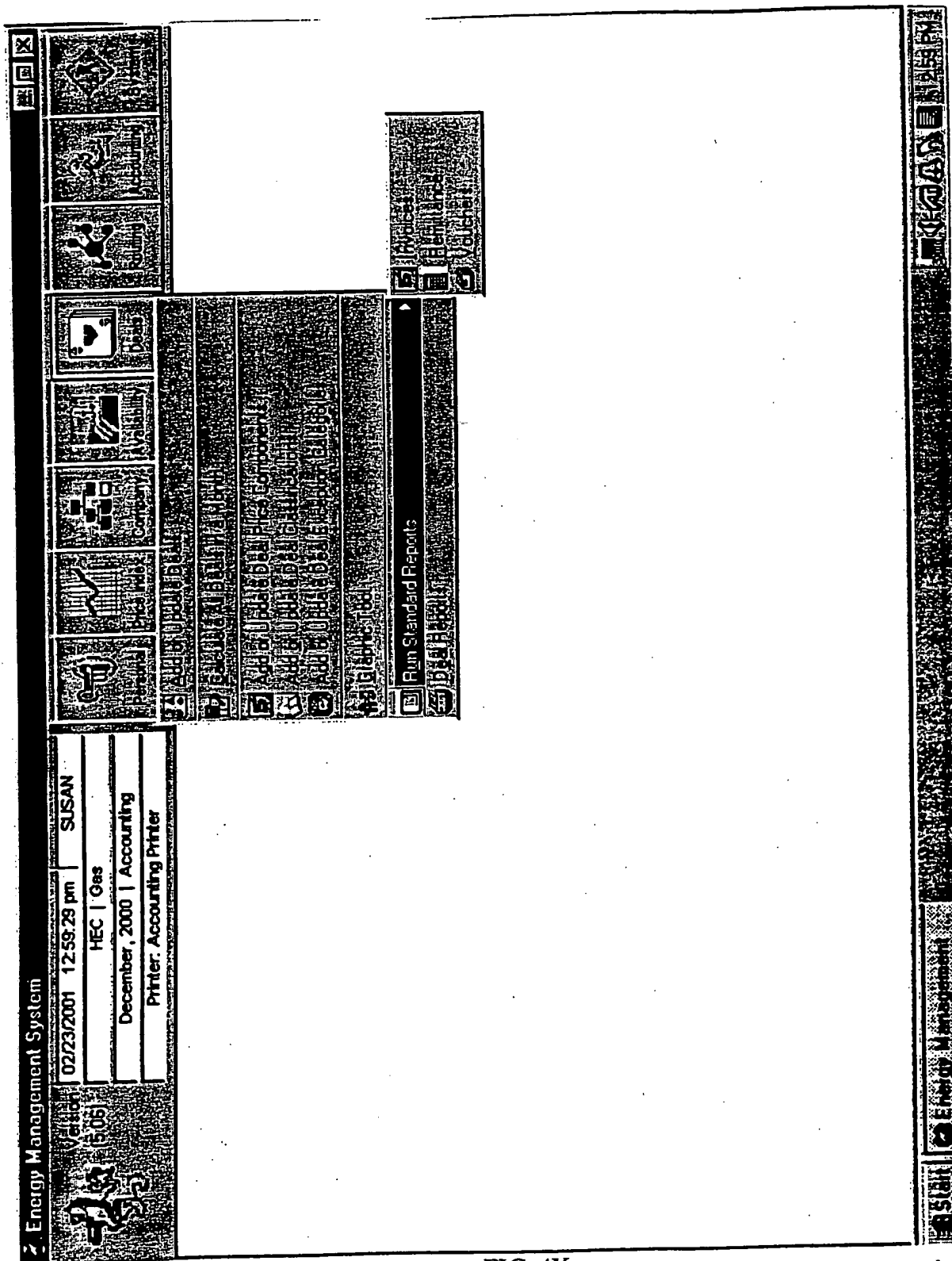


FIG. 4K

**FIG. 4L**

[illegible]

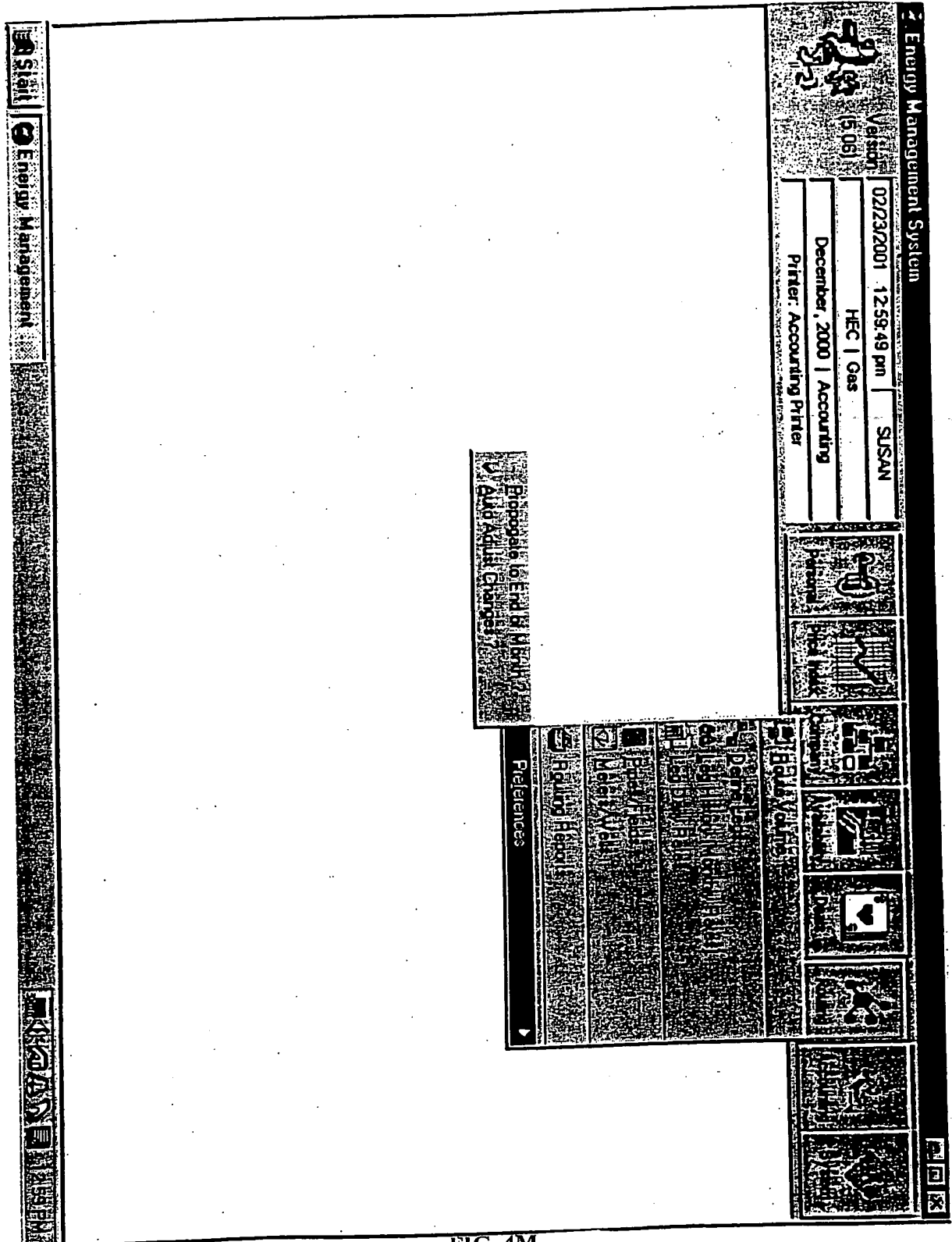


FIG. 4M

09895011.123101

FIG. 4N

**00000000000000000000000000000000**

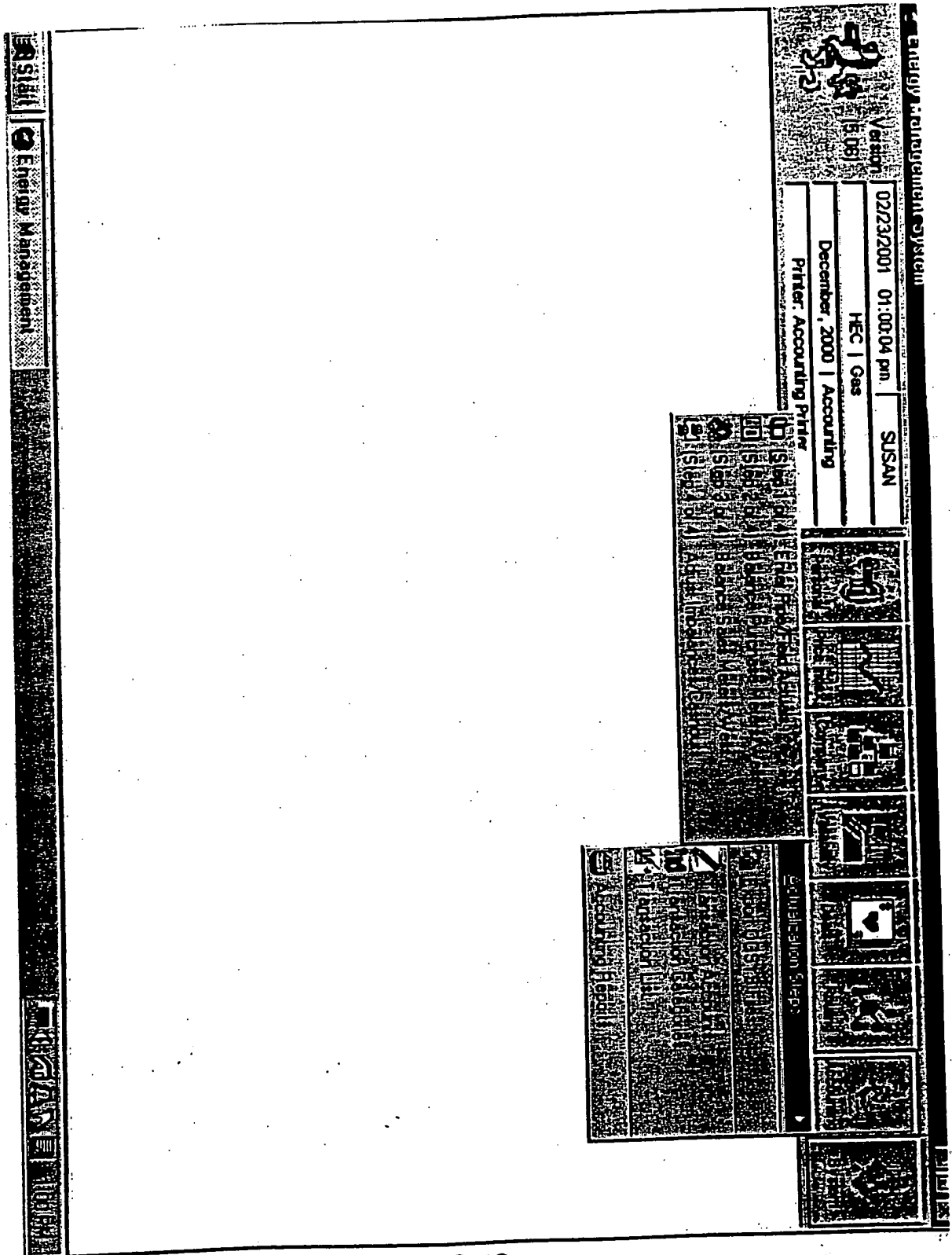


FIG. 40

FOREF "TFOSSCO

**Energy Management System**

**Enter Pipe/Field/Actuals**

**Volume Location**

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

1.000000

31

**December / 2000**

**Purchases**

**Columbia Gulf Transmission**

Deal	Actuals	Company
1	1.000000	1.000000
2	1.000000	1.000000
3	1.000000	1.000000
4	1.000000	1.000000
5	1.000000	1.000000
6	1.000000	1.000000
7	1.000000	1.000000
8	1.000000	1.000000
9	1.000000	1.000000
10	1.000000	1.000000
11	1.000000	1.000000
12	1.000000	1.000000
13	1.000000	1.000000
14	1.000000	1.000000
15	1.000000	1.000000
16	1.000000	1.000000
17	1.000000	1.000000
18	1.000000	1.000000
19	1.000000	1.000000
20	1.000000	1.000000
21	1.000000	1.000000
22	1.000000	1.000000
23	1.000000	1.000000
24	1.000000	1.000000
25	1.000000	1.000000
26	1.000000	1.000000
27	1.000000	1.000000
28	1.000000	1.000000
29	1.000000	1.000000
30	1.000000	1.000000
31	1.000000	1.000000
32	1.000000	1.000000
33	1.000000	1.000000
34	1.000000	1.000000
35	1.000000	1.000000
36	1.000000	1.000000
37	1.000000	1.000000
38	1.000000	1.000000
39	1.000000	1.000000
40	1.000000	1.000000
41	1.000000	1.000000
42	1.000000	1.000000
43	1.000000	1.000000
44	1.000000	1.000000
45	1.000000	1.000000
46	1.000000	1.000000
47	1.000000	1.000000
48	1.000000	1.000000
49	1.000000	1.000000
50	1.000000	1.000000
51	1.000000	1.000000
52	1.000000	1.000000
53	1.000000	1.000000
54	1.000000	1.000000
55	1.000000	1.000000
56	1.000000	1.000000
57	1.000000	1.000000
58	1.000000	1.000000
59	1.000000	1.000000
60	1.000000	1.000000
61	1.000000	1.000000
62	1.000000	1.000000
63	1.000000	1.000000
64	1.000000	1.000000
65	1.000000	1.000000
66	1.000000	1.000000
67	1.000000	1.000000
68	1.000000	1.000000
69	1.000000	1.000000
70	1.000000	1.000000
71	1.000000	1.000000
72	1.000000	1.000000
73	1.000000	1.000000
74	1.000000	1.000000
75	1.000000	1.000000
76	1.000000	1.000000
77	1.000000	1.000000
78	1.000000	1.000000
79	1.000000	1.000000
80	1.000000	1.000000
81	1.000000	1.000000
82	1.000000	1.000000
83	1.000000	1.000000
84	1.000000	1.000000
85	1.000000	1.000000
86	1.000000	1.000000
87	1.000000	1.000000
88	1.000000	1.000000
89	1.000000	1.000000
90	1.000000	1.000000
91	1.000000	1.000000
92	1.000000	1.000000
93	1.000000	1.000000
94	1.000000	1.000000
95	1.000000	1.000000
96	1.000000	1.000000
97	1.000000	1.000000
98	1.000000	1.000000
99	1.000000	1.000000

**Meter Well**

FIG. 4P



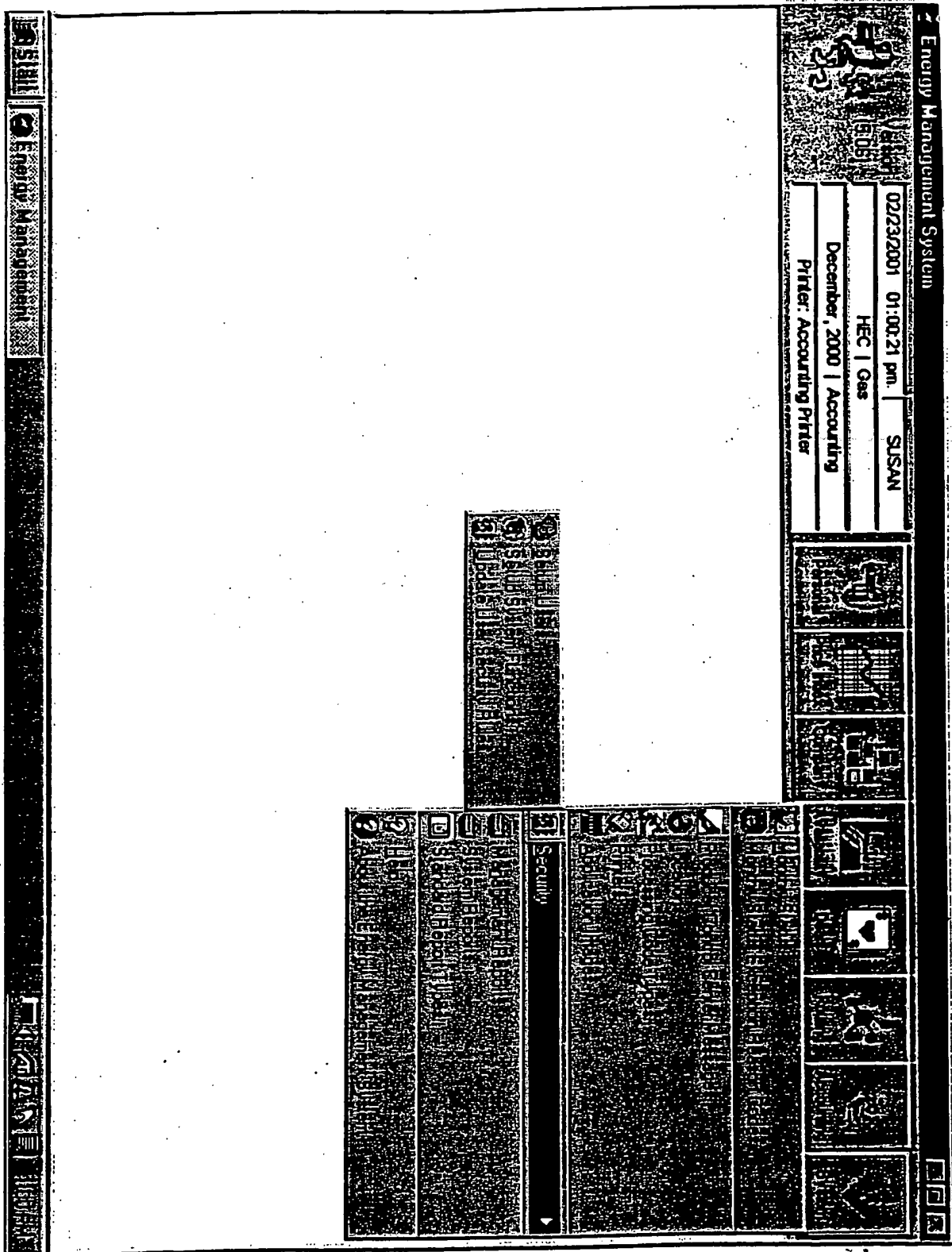


FIG. 4Q

09895011.123101

# WASP Calculation Diagram

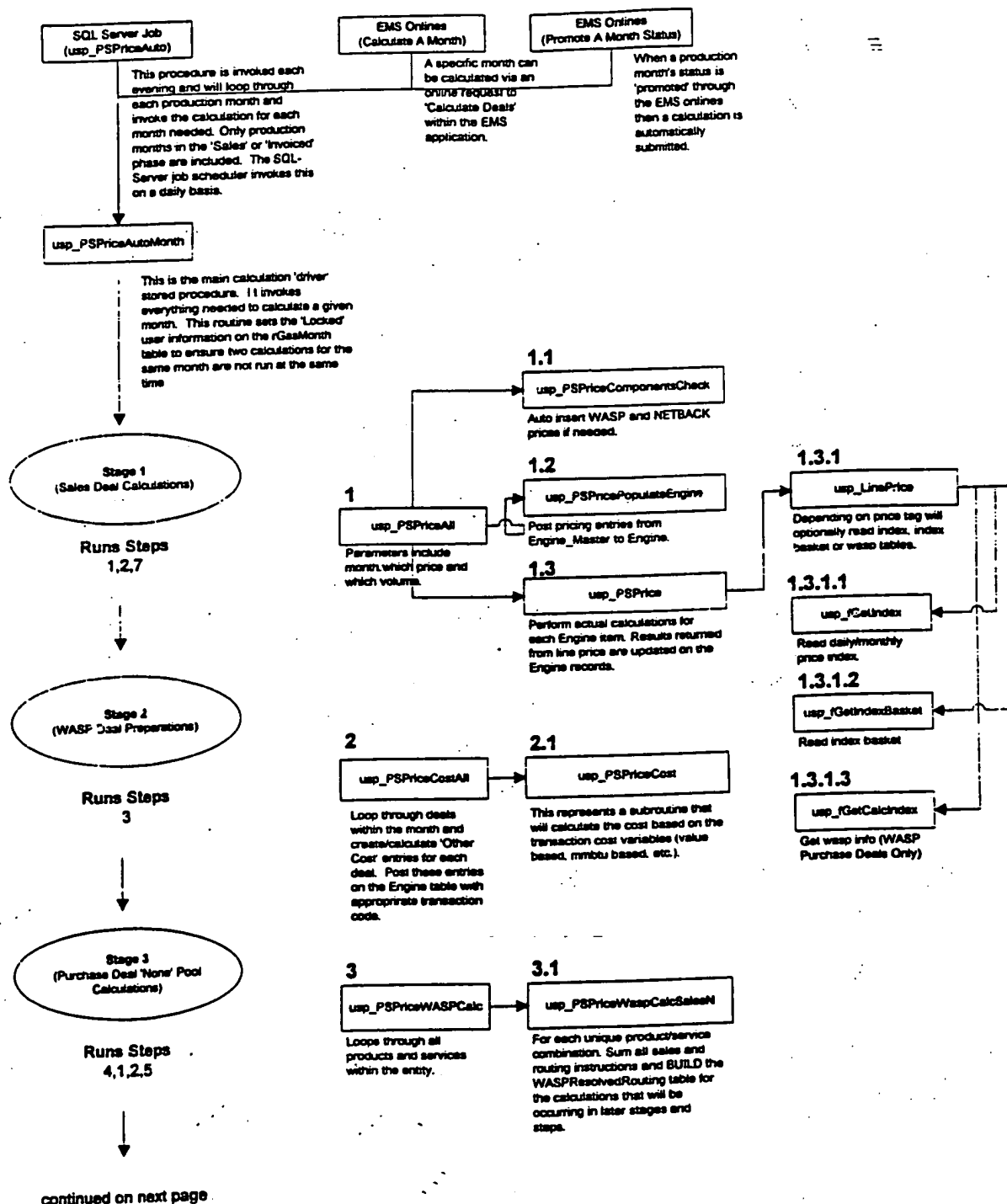
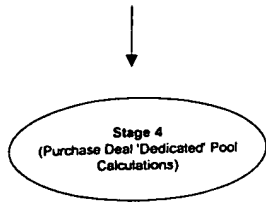


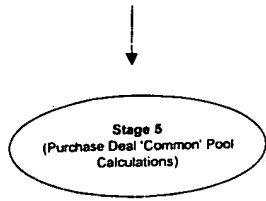
FIG. 5A

# WASP Calculation Diagram (2 of 2)

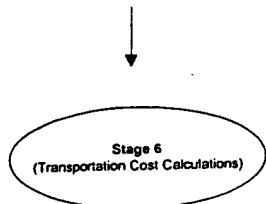
continued from previous page



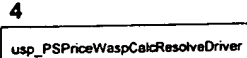
Runs Steps  
4,1,2



Runs Steps  
4,1,2



Runs Steps  
6



This procedure will loop through each product and service and invoke the resolve routines for each unique combination.

4.1

usp\_PSPPriceWaspCalcResolveN  
 This procedure invokes the iterative process which loops back from all the sales points to originating purchase points.

4.1.1

usp\_PSPPriceWaspCalcResolveSalesN  
 HIGHLY ITERATIVE process that attempts to track all sales meters back to original purchase meters. The WASPResolvedRouting table is the primary table utilized here.

5

usp\_PSPPriceWASPDivideOutProceedsN

Move any of the financial proceeds that were overridden to their respective deal OR WASP meters. This takes the profit or (loss) and makes the adjustments. Only 3rd party deals can have their proceeds 'divided'. The primary table updated through this process is the WASPResolvedRouting table.

6

usp\_PSPPriceTransportAll

This routine will create all of the Gastrv 'PriceType=3' inventory records and associated Engine (calculated) results. These system generated transport costs include transport, gathering, fuel and pwr.

7

usp\_PSPPriceAnyNewInvoicesNeeded

This routine only gets executed if the production month status is set to 'Invoiced'. This routine will ensure that an invoice number gets assigned if no number currently exists (for new sales entries introduced during the actualization phase).

FIG. 5B